We claim:

1. A system for manipulating video data in real-time comprising:

means for acquiring video images,

means for converting any analog video images into digital images,

means for storing digital images,

means for retrieving, editing, and merging digital images, and

means for displaying digital images to an observer in real-time.

2. A process for manipulating video data in real-time comprising;

steps for acquiring video images,

steps for converting any analog video images into digital images,

steps for storing digital images,

retrieving a first set of digital images,

retrieving a second set of digital images,

making a transition effect to compose new frames,

making a special effect to compose additional new frames,

merge the new frames with the first and second set of digital images,

display the result to an observer, and

repeat the process as a user requests.